

NEW ZEALAND

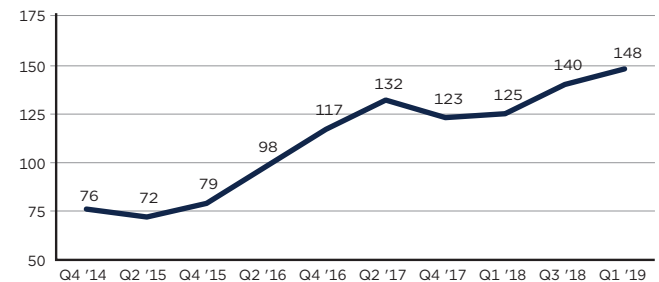


Q1 2019 RLB CRANE INDEX® HIGHLIGHTS

- Total of 148 cranes on construction sites (98 in Auckland, 18 in Christchurch and 11 in Queenstown). This is the highest national count on record
- National increase of 8 long term cranes with 58 additions and 50 removals
- RLB Crane Index® has risen to 195, the highest index since commencement
- Residential Index fell slightly to 431, down 2% from the previous Q3 2018 peak
- Non-Residential Index value rose to 146, up from 132, the highest on record since commencement
- The non-residential upswing was driven by the hotel, retail and civil sectors

CRANE ACTIVITY - NEW ZEALAND

NUMBER OF CRANES



Q3 2018 RLB CRANE INDEX® SUMMARY

CITIES

AUCKLAND	↑
CHRISTCHURCH	↑
DUNEDIN	↑
HAMILTON	↑
QUEENSTOWN	↑
TAURANGA	↑
WELLINGTON	↑

KEY SECTORS

CIVIC	↑	HOTEL	↑
CIVIL	↑	MISC.	↑
COMMERCIAL	↑	RECREATION	↑
EDUCATION	↑	RESIDENTIAL	↑
HEALTH	↑	RETAIL	↑

MISC. INCLUDES MIXED USE AND OTHER SECTOR PROJECTS

LEGEND

↑	INCREASE IN NUMBER OF CRANES	↓	DECREASE IN NUMBER OF CRANES	↔	CRANE NUMBERS STEADY
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NEW ZEALAND

The 11th edition (Q1 2019) of the RLB Crane Index® highlights the continuing strength of the construction industry. Since our last edition, 58 long term cranes were positioned on new projects and 50 cranes were removed from ones nearing completion.

The rise in crane numbers across the country mirrors the record levels of new building work put in place and consents during 2018. New Zealand's new building work put in place grew 6.8%, to \$18 billion for the 12 months ending 30 September 2018. Growth of 6.8% and 6.9% respectively was recorded for new residential and new non-residential work put in place.

New building consents also rose with the number of consents in CY 2018 reaching 39,087 and totalling \$17.6 billion.

Overall crane numbers increased by eight across the country, with Auckland increasing by eight, Tauranga by three, and both Hamilton and Queenstown by one each. Wellington's crane count remained the same, while we observed falls in crane numbers for both Christchurch and Dunedin.

Auckland continues to maintain its dominance across New Zealand by contributing two thirds of all long term cranes observed for this edition. The South Island major centres accounted for 20% of all cranes across the country.

Residential cranes remained steady at 56 cranes with 17 new cranes and 18 removals. This is representative of the historical shift towards the intensification of housing across the country through multi-unit dwellings such as apartments and townhouses. This remains at a similar peak level since Q4 2017.

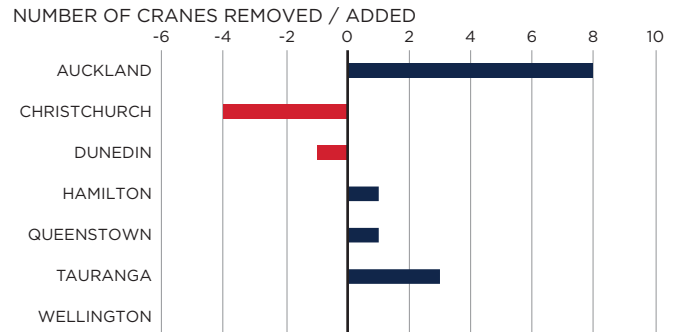
The doubling of civil cranes from seven to fourteen is reflective of the government's ongoing commitment to fund the upgrading of key infrastructure projects around the nation. Projects include road widening, bridges, water plant upgrades, America's Cup infrastructure and Auckland's City Rail Link.

The commercial sector saw eight new cranes and 17 removals to bring the total number of cranes to 23, down from 32. This fall was due to the completion of eight developments in Christchurch, adding office stock to the revitalisation of the city CBD.

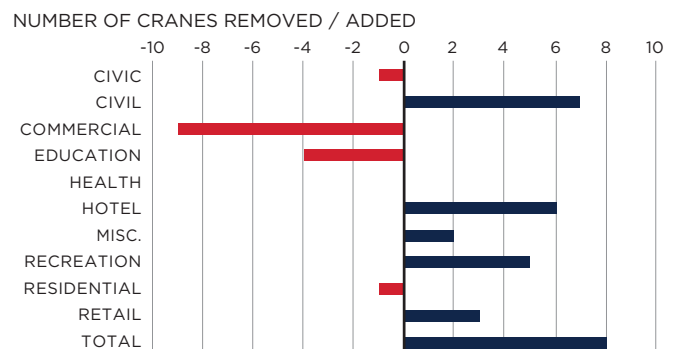
Significant investment within the hotel and recreation sectors has seen a jump of eleven new cranes.

The health sector remains very quiet with one long term crane nationally, however, a significant pipeline of new build work is planned over the next few years.

NEW ZEALAND NET CRANE MOVEMENT BY CITY



NEW ZEALAND NET CRANE MOVEMENT BY SECTOR



CRANE ACTIVITY - NEW ZEALAND

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2018	%	+	-	NET	Q1 2019	%
AUCKLAND	90	64.3%	30	-22	8	98	66.2%
CHRISTCHURCH	22	15.7%	11	-15	-4	18	12.2%
DUNEDIN	2	1.4%	0	-1	-1	1	0.7%
HAMILTON	2	1.4%	1	0	1	3	2.0%
QUEENSTOWN	10	7.1%	6	-5	1	11	7.4%
TAURANGA	6	4.3%	5	-2	3	9	6.1%
WELLINGTON	8	5.7%	5	-5	0	8	5.4%
TOTAL	140	100.0%	58	-50	8	148	100.0%

CRANE ACTIVITY - NEW ZEALAND BY SECTOR

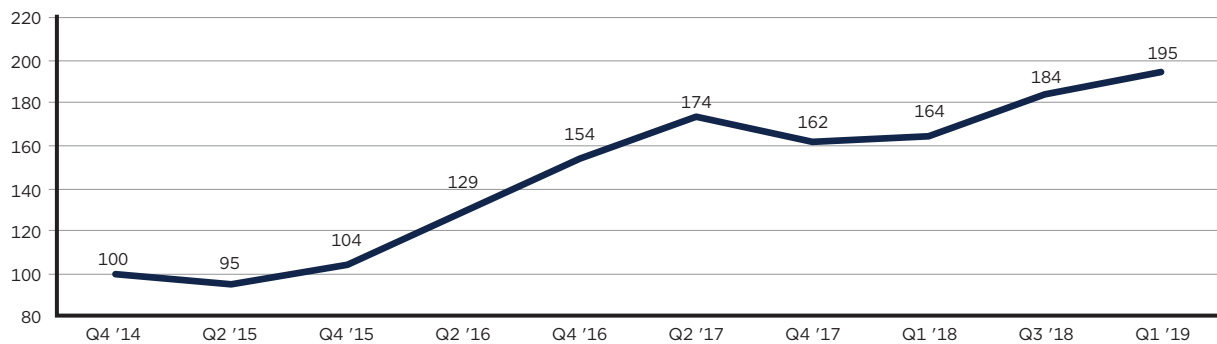
	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2018	%	+	-	NET	Q1 2019	%
CIVIC	9	6.4%	1	-2	-1	8	5.4%
CIVIL	7	5.0%	8	-1	7	14	9.5%
COMMERCIAL	32	22.9%	8	-17	-9	23	15.5%
EDUCATION	7	5.0%	0	-4	-4	3	2.0%
HEALTH	1	0.7%	1	-1	0	1	0.7%
HOTEL	8	5.7%	6	0	6	14	9.5%
MISC.	4	2.9%	3	-1	2	6	4.1%
RECREATION	0	0.0%	5	0	5	5	3.4%
RESIDENTIAL	57	40.7%	17	-18	-1	56	37.8%
RETAIL	15	10.7%	9	-6	3	18	12.2%
TOTAL	140	100.0%	58	-50	8	148	100.0%

NEW ZEALAND

Since Q4 2017, the New Zealand RLB Crane Index® has been steadily rising, with this edition recording a new peak of 195. Between Q4 2017 and Q1 2019 the index has increased 20%, driven by the non-residential sectors.

RLB CRANE INDEX® - NEW ZEALAND

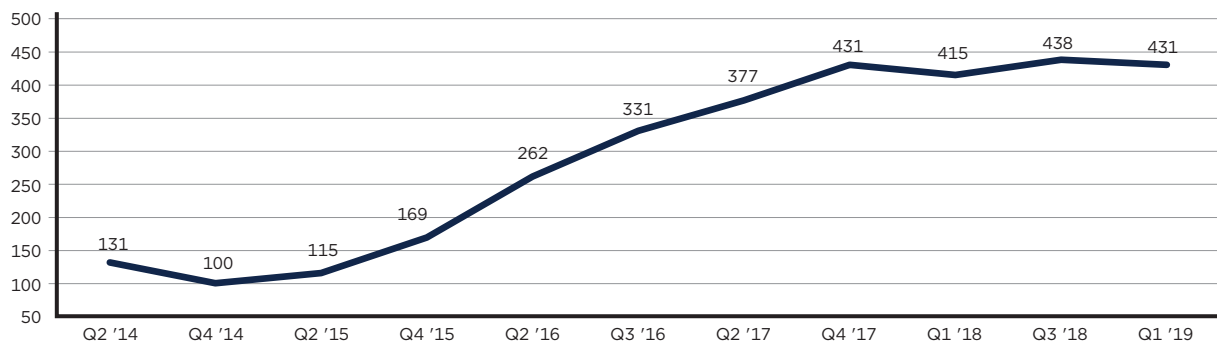
BASE: Q4 2014 = 100



The Residential Index has been steadily growing since the commencement of the index. Since Q4 2017 the Residential Index has maintained its peak, with all four editions recording indexes above 400, reflective of the similar levels of residential cranes over this 18 month period.

NEW ZEALAND - RESIDENTIAL CRANE INDEX

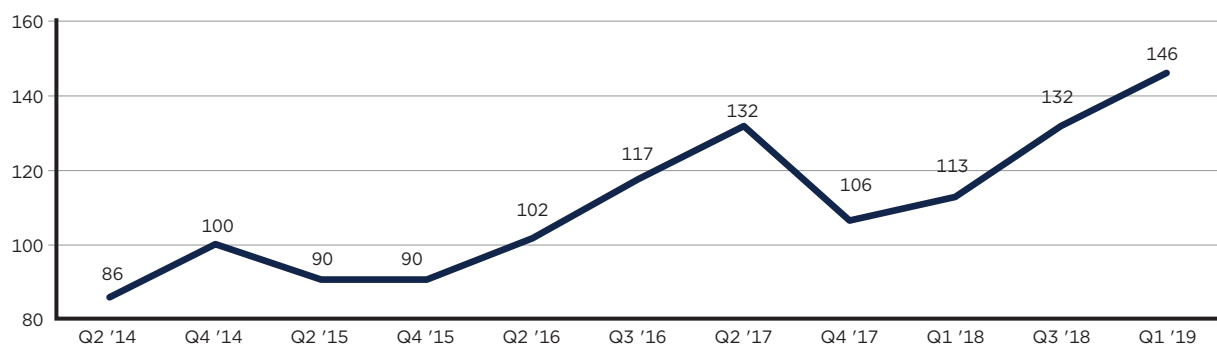
BASE: Q4 2014 = 100



The Non-Residential Index has had significant growth since Q4 2017, with Q1 2019 recording a new peak of 146. Uplifts in the non-residential sector were driven by the civil, hotel, retail and recreation sectors. Education and commercial office have fallen in the recent period.

NEW ZEALAND - NON-RESIDENTIAL CRANE INDEX

BASE: Q4 2014 = 100



AUCKLAND

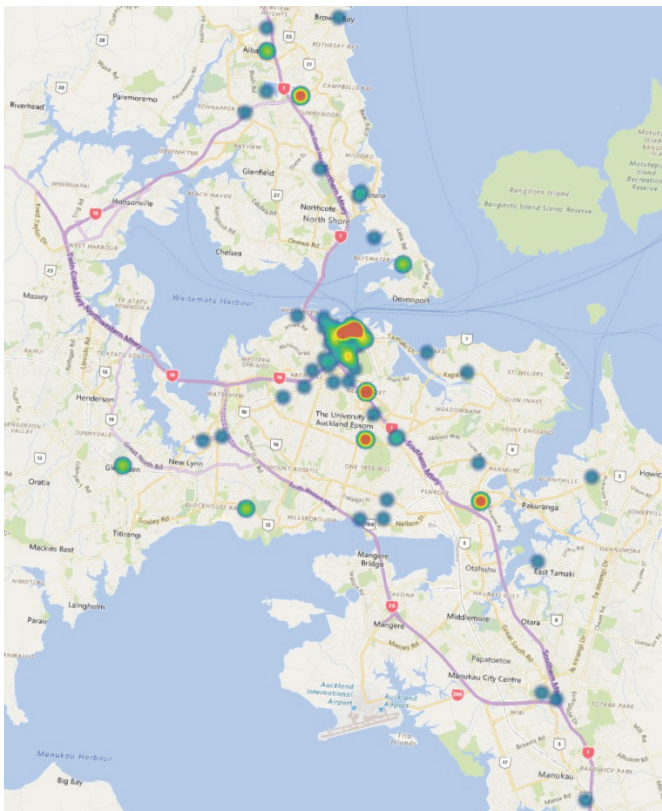
Auckland's RLB Crane Index® rose by 9% to continue its upward trajectory. This rise represents the tenth consecutive increase. The index now stands at 377.

The increase of eight cranes across Auckland was a result of 30 new long term cranes placed and 22 removed bringing the region's total to 98 cranes.

The trend of increasing crane numbers is reflected in the rise in value of new building work put in place. New work strengthened in the 12 months ending 30 September 2018, totalling \$7 billion, a 13% increase on the same period in 2017. Increases were recorded in both the residential and non-residential sectors, with 14% and 10% respectively.

The pipeline of new projects continues to be strong in Auckland, with the number of new building consents rising by 18% for CY 2018, to 13,766. The number of consents for both new residential and new non-residential increased with 18% and 19% respectively.

Residential cranes fell below 50% of the 98 cranes across Auckland for the first time since Q4 2015. Increases in crane numbers were seen within the retail sector (six), civil sector (five) and hotel sector (four).



KEY SECTORS

CIVIC	
CIVIL	
COMMERCIAL	
EDUCATION	
HOTEL	
MISC.	
RESIDENTIAL	
RETAIL	

MISC. INCLUDES MIXED USE AND OTHER SECTOR PROJECTS

OVERALL STATUS

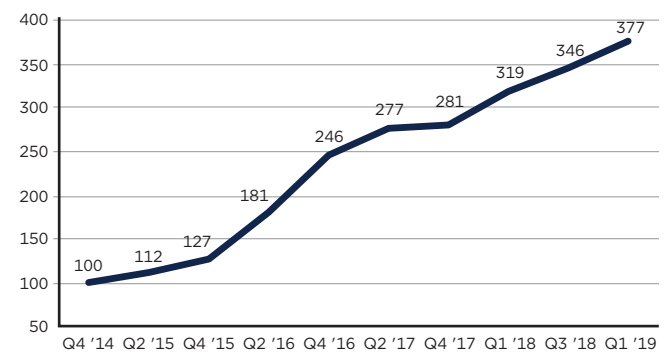


LEGEND

	INCREASE IN NUMBER OF CRANES		DECREASE IN NUMBER OF CRANES		CRANE NUMBERS STEADY
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RLB CRANE INDEX® - AUCKLAND

BASE: Q4 2014 = 100



CRANE ACTIVITY - AUCKLAND

	OPENING COUNT		MOVEMENT		CLOSING COUNT	
	Q3 2018	%	+	-	Q1 2019	%
CIVIC	4	4.4%	0	0	4	4.1%
CIVIL	6	6.7%	6	-1	11	11.2%
COMMERCIAL	15	16.7%	3	-6	12	12.2%
EDUCATION	3	3.3%	0	-1	2	2.0%
HEALTH	0	0.0%	0	0	0	0.0%
HOTEL	6	6.7%	4	0	10	10.2%
MISC.	1	1.1%	0	0	1	1.0%
RECREATION	0	0.0%	0	0	0	0.0%
RESIDENTIAL	49	54.4%	11	-14	46	46.9%
RETAIL	6	6.7%	6	0	12	12.2%
TOTAL	90	100.0%	30	-22	98	100.0%

AUCKLAND

Two new cranes were erected within the retail sector for the SEM Carpark at Sylvia Park and additional cranes added to 277 Westfield, Ormiston Town Centre and the Galleria expansion at Sylvia Park.

Within the civil sector, six new cranes were placed, two for the SH1 widening works in Rosedale, two for the America's Cup Wharfs and Bases, one each at the Watercare site in Rosedale and the City Rail Link Mount Eden Station Diversions. A crane was removed from the SH1 bridge widening in South Auckland.

Four new cranes were erected in the hotel sector, lifting the sector count to ten, its highest count ever recorded. New cranes were sighted for 1 Queen Street, Hotel Britomart, Sudima Hotel and Wynyard 100.

The commercial sector saw a decrease of three cranes for this edition. Six cranes were removed from projects on Customs Street, Corinthian Drive in Albany, Mills Lane, 1 Broadway in Newmarket, Shakespeare Road in Smales Farm and Kerrs Road in Manukau, while three new cranes were erected for Dilworth School, Fanshawe Street and Nelson Street.

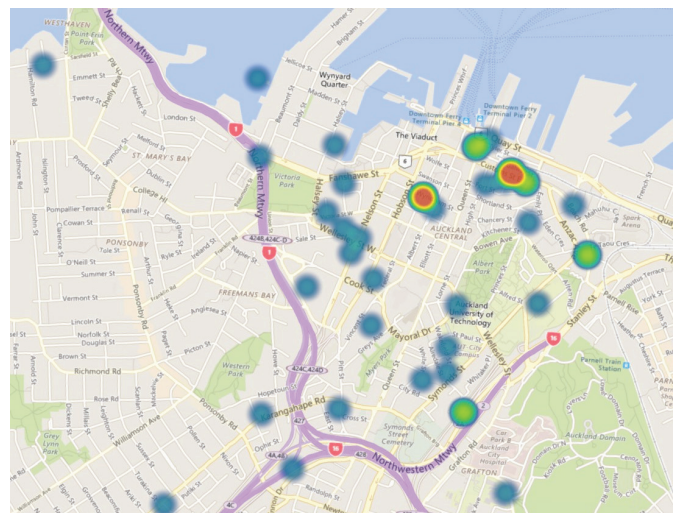
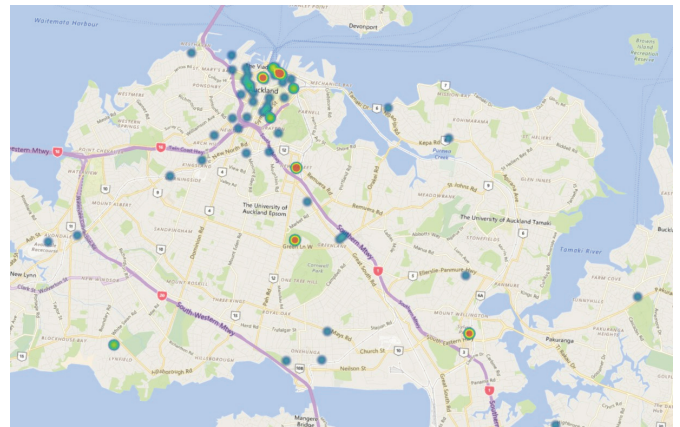
One crane was removed from the University of Auckland's Engineering School, lowering the education count to two.

The civic and miscellaneous sectors were unchanged from the previous edition, with four civic cranes remaining at the Sky City Convention Centre and one crane remaining at Mt Eden Prison in the miscellaneous sector.

Auckland's residential cranes account for 82% of all the residential cranes in New Zealand and 31% of all cranes nationally. This includes cranes on projects for multi-residential apartments, private residential, student residential accommodation and the aged care sector. Fourteen residential cranes were removed from projects, with eleven added, bringing the sector count to 46. The Union Green Project, formerly by Eberts, has commenced again with Dominion Constructors on site enabling the existing tower crane. Arrow International have recently gone into administration and currently have two tower cranes on the student residential project on Anzac Avenue and one tower crane on the apartment project on Airedale Street. These cranes remain in the current count.

New crane sightings across Auckland for this edition include:

- America's Cup Wharfs and Bases (two cranes)
- SEM Carpark Sylvia Park (two cranes)
- Sudima Hotel
- Hotel Britomart
- 1 Queen Street
- Wynyard 100
- 59France, Eden Terrace
- OKLA, Albany
- Lighthouse Apartments on K Road
- 30 Madden at Wynyard Central
- Fabric in Onehunga
- Parkside Residences, Mount Wellington
- Dilworth School
- Mansons office on Fanshawe Street
- Watercare site, Rosedale
- Pakuranga Park Retirement
- Mount Eden Station (City Rail Link)
- Ormiston Town Centre



CHRISTCHURCH

After recovering in the last edition, the Christchurch RLB Crane Index® fell 18% to 58. Fifteen long term cranes were removed from projects and eleven cranes added, resulting in a decrease of four cranes.

Mirroring the index, the value of new building work put in place in Canterbury fell 9.0% for the 12 months ending 30 September 2018, compared to the same period in 2017. Falls were felt in both residential and non-residential work put in place with 9.4% and 8.4% respectively.

Five cranes commenced work at the Metro Sports Centre, matching the number of cranes working on the Westfield Newmarket redevelopment in Auckland. Together with the five cranes across Commercial Bay (office and retail) and NZICC (civic and hotel), these four projects are the largest crane sites in New Zealand.

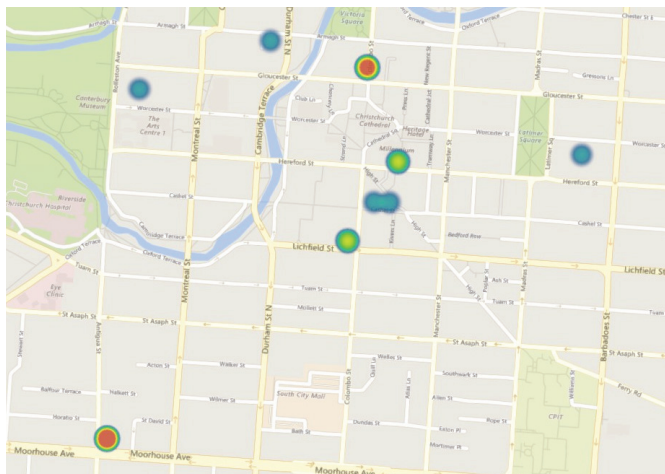
Two cranes were removed from the Town Hall project which announces the imminent reopening of this key project in March 2019. One crane was added to the Christchurch Convention Centre project, bringing the civic sector total to four.

The commercial sector saw nine cranes removed from projects. Commercial projects nearing completion include Archibalds in Tuam Street, Knight Frank House, 169 Durham Street and Bealey Avenue, while four cranes remain on existing projects at Armagh Street, Cathedral Square and High Street.

The 62,000m² Christchurch Hospital Acute Services Building is nearing completion with the last crane being removed. No cranes are currently assisting health projects in Christchurch.

Within the retail sector, an additional crane was added to the Ballantynes project, one crane was erected for the Kathmandu project on Colombo Street, and one crane was removed from 88 Cashel Street, bringing the retail count to three.

The residential and miscellaneous crane counts were unchanged from the previous edition, both with one crane. One residential crane was removed from Barbadoes Street, with one added for Park Tower on Latimer Square. In the miscellaneous sector, one crane was removed from the project on Moorhouse Avenue and one crane was erected for Ravenscar House.



KEY SECTORS

CIVIC	
COMMERCIAL	
HEALTH	
MISC.	
RECREATION	
RESIDENTIAL	
RETAIL	

MISC. INCLUDES MIXED USE AND OTHER SECTOR PROJECTS

OVERALL STATUS

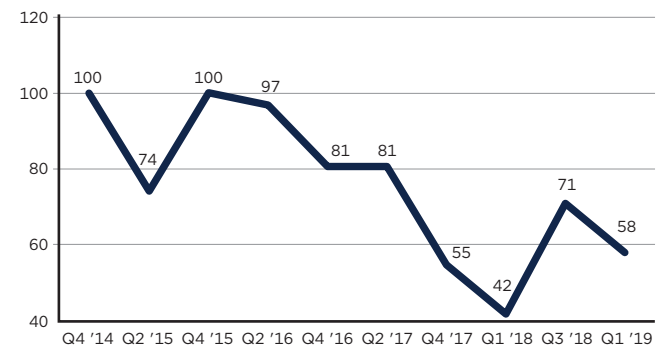


LEGEND

	INCREASE IN NUMBER OF CRANES		DECREASE IN NUMBER OF CRANES		CRANE NUMBERS STEADY
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RLB CRANE INDEX® - CHRISTCHURCH

BASE: Q4 2014 = 100



CRANE ACTIVITY - CHRISTCHURCH

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2018	%	+	-	NET	Q1 2019	%
CIVIC	5	22.7%	1	-2	-1	4	22.2%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	12	54.5%	1	-9	-8	4	22.2%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	1	4.5%	0	-1	-1	0	0.0%
HOTEL	0	0.0%	0	0	0	0	0.0%
MISC.	1	4.5%	1	-1	0	1	5.6%
RECREATION	0	0.0%	5	0	5	5	27.8%
RESIDENTIAL	1	4.5%	1	-1	0	1	5.6%
RETAIL	2	9.1%	2	-1	1	3	16.7%
TOTAL	22	100.0%	11	-15	-4	18	100.0%

DUNEDIN

Dunedin's crane count fell to one in this edition, with the removal of the crane from the University of Otago's Dental School project. This crane 'Reachie McClaw' has travelled the length of the country and is now erected on Infratil's Wynyard 100 project in Auckland.

One crane remains at the University's Research Support Facility.

Dunedin awaits confirmation of new hospital projects and timings to provide a boost to the local construction industry.

KEY SECTORS

EDUCATION



OVERALL STATUS



LEGEND



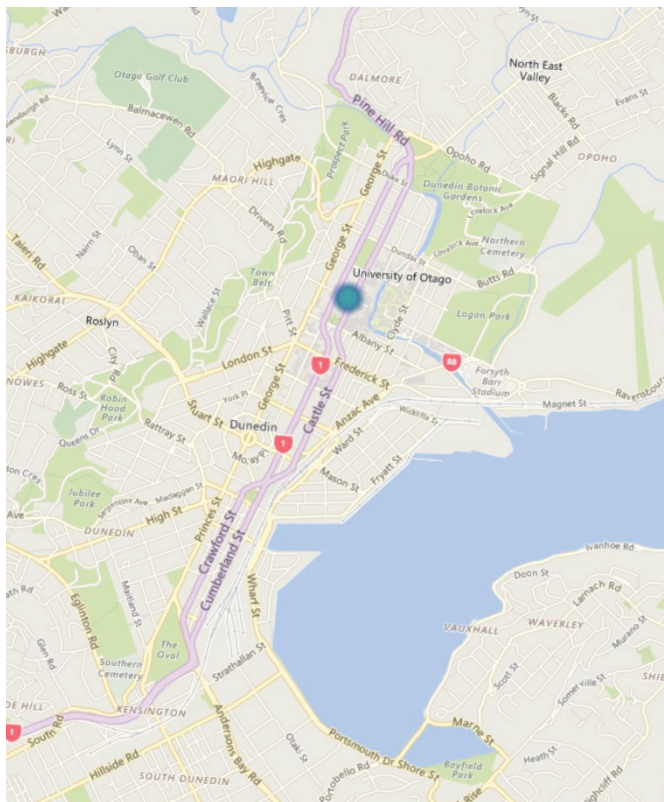
INCREASE
IN NUMBER
OF CRANES



DECREASE
IN NUMBER
OF CRANES

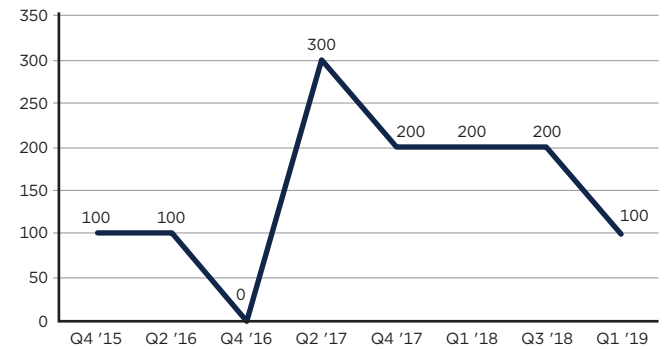


CRANE
NUMBERS
STEADY



RLB CRANE INDEX® - DUNEDIN

BASE: Q4 2014 = 100



CRANE ACTIVITY - DUNEDIN

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2018	%	+	-	NET	Q1 2019	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	0	0.0%	0	0	0	0	0.0%
EDUCATION	2	100.0%	0	-1	-1	1	100.0%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	0	0.0%	0	0	0	0	0.0%
MISC.	0	0.0%	0	0	0	0	0.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	0	0.0%	0	0	0	0	0.0%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	2	100.0%	0	-1	-1	1	100.0%

HAMILTON

Hamilton's crane count increased to three for this edition, lifting the RLB Crane Index® back to 43.

The value of new building work put in place within the Waikato region increased to \$1.7 billion for the 12 months ending 30 September 2018, a 3.3% increase on the same period in 2017. New residential work put in place remained steady, with a 0.8% increase, while non-residential work put in place jumped 11%.

New long term cranes have been raised on both Mainfreight's Waikato Headquarters in Te Rapa North and a commercial/industrial site in Te Rapa.

One civil crane remains at Tamahere Bridge on the Waikato Expressway.

KEY SECTORS

CIVIL



COMMERCIAL



OVERALL STATUS



LEGEND



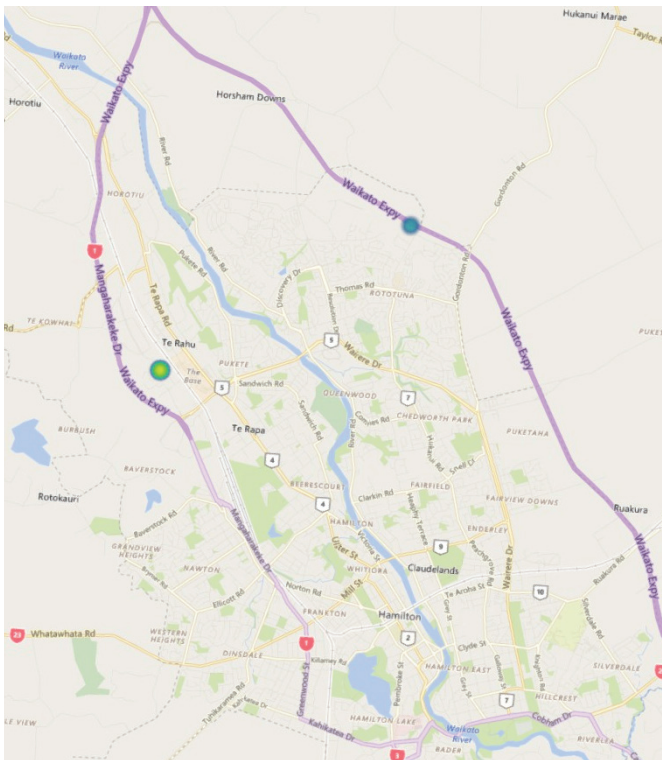
INCREASE
IN NUMBER
OF CRANES



DECREASE
IN NUMBER
OF CRANES

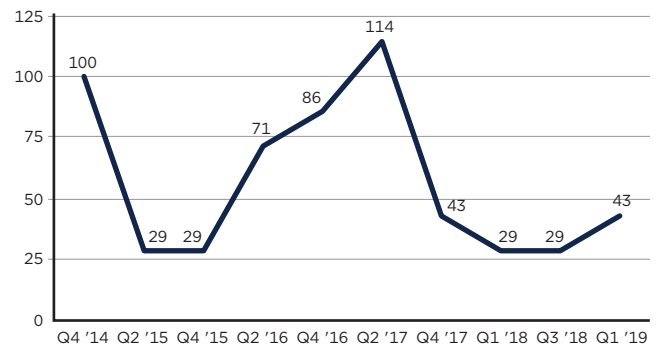


CRANE
NUMBERS
STEADY



RLB CRANE INDEX® - HAMILTON

BASE: Q4 2014 = 100



CRANE ACTIVITY - HAMILTON

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2018	%	+	-	NET	Q1 2019	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	1	50.0%	0	0	0	1	33.3%
COMMERCIAL	1	50.0%	1	0	1	2	66.7%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	0	0.0%	0	0	0	0	0.0%
MISC.	0	0.0%	0	0	0	0	0.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	0	0.0%	0	0	0	0	0.0%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	2	100.0%	1	0	1	3	100.0%

QUEENSTOWN

The Queenstown RLB Crane Index® continues to rise, up 10% to 275.

Six new cranes were added and five cranes were removed from projects, bringing the crane count to eleven.

The commercial and miscellaneous sectors had the largest increases, each with two new cranes. Two commercial cranes for the Shotover Jet project on Frankton Street and two miscellaneous cranes for the light industrial development on Glenda Drive were erected.

Within the hotel sector, two cranes remained for the Holiday Inn Express project and one crane was erected for Ramada Hotel, increasing the sector count to three.

The residential sector remained constant with four cranes. One crane was removed from the Millbrook development while one new crane was erected for a residential project in Malaghans Road, both in Arrowtown. Residential cranes remained at the Remarkable View development in Middleton Road, Marina Village and on Peninsula Road.

All retail cranes were removed from Queenstown Central, reducing the retail count to zero.

KEY SECTORS

COMMERCIAL	
HOTEL	
MISC.	
RESIDENTIAL	
RETAIL	

MISC. INCLUDES MIXED USE AND OTHER SECTOR PROJECTS

OVERALL STATUS

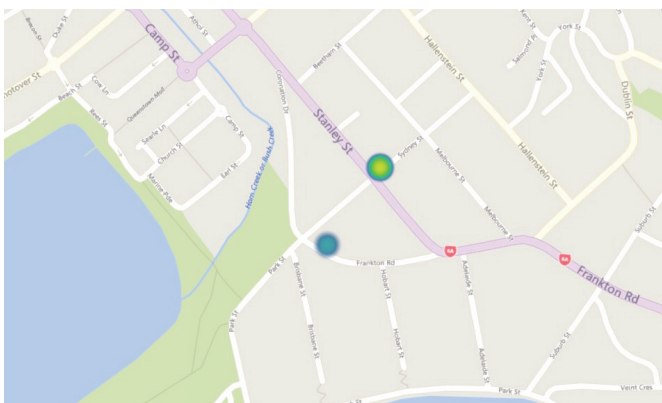
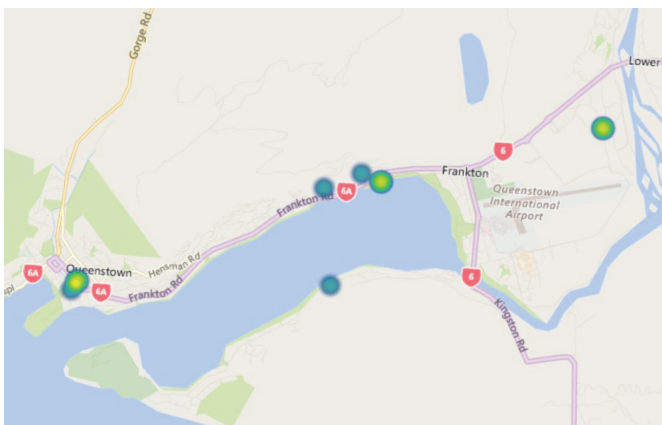
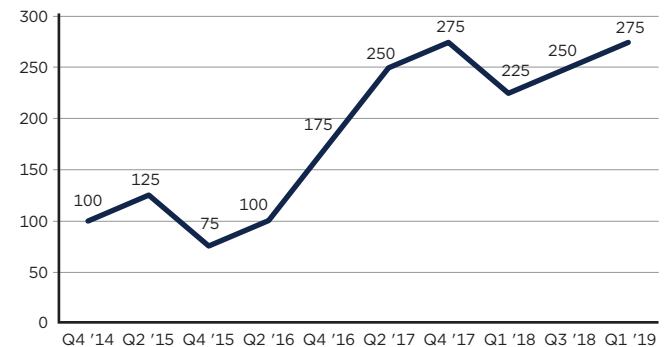


LEGEND

	INCREASE IN NUMBER OF CRANES		DECREASE IN NUMBER OF CRANES		CRANE NUMBERS STEADY
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RLB CRANE INDEX® - QUEENSTOWN

BASE: Q4 2014 = 100



CRANE ACTIVITY - QUEENSTOWN

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2018	%	+	-	NET	Q1 2019	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	0	0.0%	2	0	2	2	18.2%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	2	20.0%	1	0	1	3	27.3%
MISC.	0	0.0%	2	0	2	2	18.2%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	4	40.0%	1	-1	0	4	36.4%
RETAIL	4	40.0%	0	-4	-4	0	0.0%
TOTAL	10	100.0%	6	-5	1	11	100.0%

TAURANGA

After falling slightly in the previous edition, Tauranga's RLB Crane Index® has bounced back, increasing 50%, to 900. This is a record high for the Tauranga crane count. Five new cranes were added and two cranes were removed, bringing the total count to nine.

The value of new building work put in place for the North Island (excluding major regions) grew by 11% for the 12 months ending 30 September 2018, compared to the same period in 2017. New non-residential building work put in place jumped 29%, while new residential work rose 5.1%.

Two new civil cranes were positioned on the SH36 and on the SH2.

One hotel crane was observed at the Quest Apartments on Devonport Road and one residential crane at the Latitude Residences on Park Street.

The sole education crane at the University of Waikato's Tauranga Campus was removed.

One commercial crane remains for the Zespri Office Building, and one miscellaneous crane remains at the Harington Street Transport Hub.

The retail count remained steady with three cranes. One crane was positioned on the Farmers site and one removed from the Tauranga Crossing Depot.

KEY SECTORS

CIVIL	
COMMERCIAL	
EDUCATION	
HOTEL	
MISC.	
RESIDENTIAL	
RETAIL	

MISC. INCLUDES MIXED USE AND OTHER SECTOR PROJECTS

OVERALL STATUS

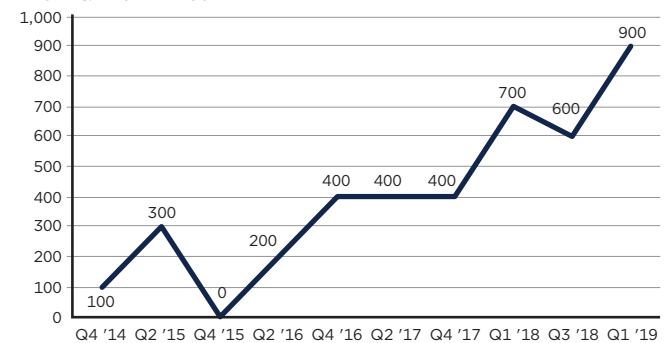


LEGEND

	INCREASE IN NUMBER OF CRANES		DECREASE IN NUMBER OF CRANES		CRANE NUMBERS STEADY
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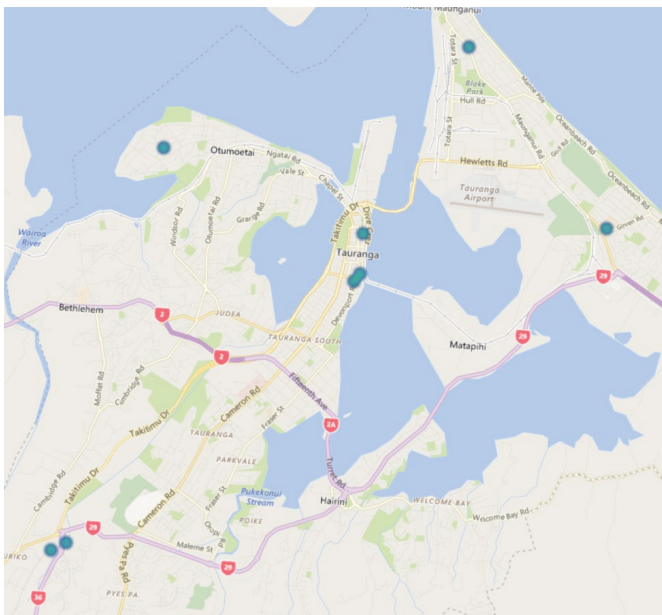
RLB CRANE INDEX® - TAURANGA

BASE: Q4 2014 = 100



CRANE ACTIVITY - TAURANGA

	OPENING COUNT Q3 2018	%	MOVEMENT			CLOSING COUNT Q1 2019	%
			+	-	NET		
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	2	0	2	2	22.2%
COMMERCIAL	1	16.7%	0	0	0	1	11.1%
EDUCATION	1	16.7%	0	-1	-1	0	0.0%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	0	0.0%	1	0	1	1	11.1%
MISC.	1	16.7%	0	0	0	1	11.1%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	0	0.0%	1	0	1	1	11.1%
RETAIL	3	50.0%	1	-1	0	3	33.3%
TOTAL	6	100.0%	5	-2	3	9	100.0%



WELLINGTON

Wellington's RLB Crane Index® remained steady at 133. Five long term cranes commenced on site and five were removed, leaving the total count at eight.

The value of new building work put in place for Wellington increased 13% for the 12 months ending 30 September 2018, compared with the same period in 2017. This rise was driven by a 21% increase in new residential work put in place during the period, while non-residential work remained fairly steady with a 0.8% increase.

The commencement of the redevelopment of the Stewart Dawson Corner in Willis Street has seen a new commercial crane assisting with the new office tower. The refurbishment project at Lambton Quay is continuing with one crane, and cranes were removed from both the Bowen State Building Refurbishment and the Indian High Commission projects, bringing the sector total back to two.

The crane at Massey University was removed, while one crane was added at the Wellington Children's Hospital.

Residential cranes were added to projects on Jackson Street in Petone and 111 Dixon Street. The crane in Molesworth Street remains. Cranes were removed from the social housing project in Hanson Street and Alpha apartments in Kent Terrace. Residential cranes have now increased to four.

The crane assisting at the biosecurity labs on Ward Street Upper Hutt remains in the miscellaneous sector.

KEY SECTORS

COMMERCIAL	
EDUCATION	
HEALTH	
MISC.	
RESIDENTIAL	

MISC. INCLUDES MIXED USE AND OTHER SECTOR PROJECTS

OVERALL STATUS

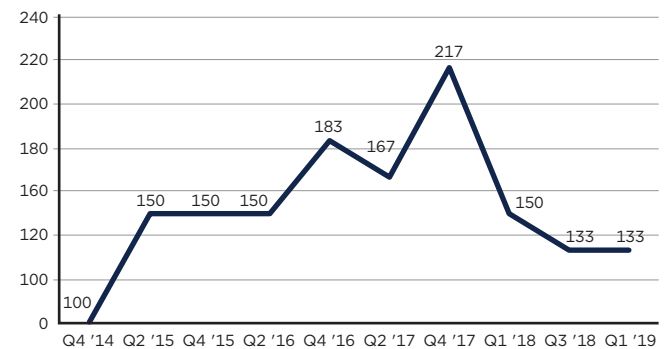


LEGEND

	INCREASE IN NUMBER OF CRANES		DECREASE IN NUMBER OF CRANES		CRANE NUMBERS STEADY
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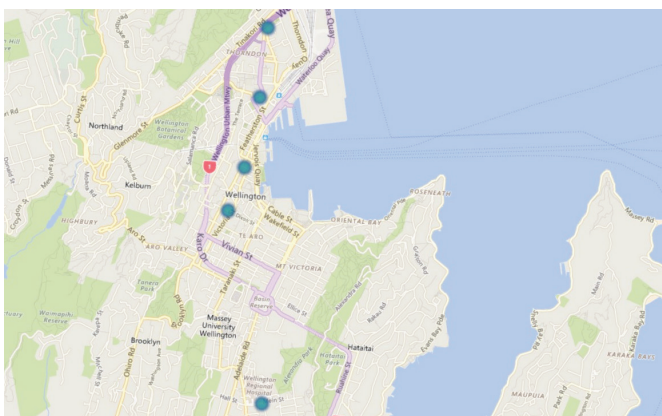
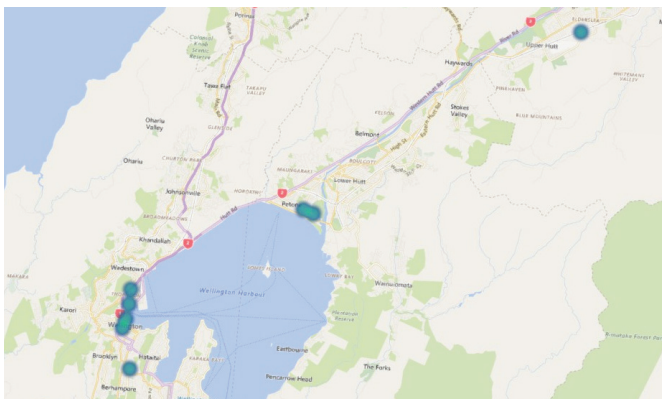
RLB CRANE INDEX® - WELLINGTON

BASE: Q4 2014 = 100



CRANE ACTIVITY - WELLINGTON

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2018	%	+	-	NET	Q1 2019	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	3	37.5%	1	-2	-1	2	25.0%
EDUCATION	1	12.5%	0	-1	-1	0	0.0%
HEALTH	0	0.0%	1	0	1	1	12.5%
HOTEL	0	0.0%	0	0	0	0	0.0%
MISC.	1	12.5%	0	0	0	1	12.5%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	3	37.5%	3	-2	1	4	50.0%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	8	100.0%	5	-5	0	8	100.0%



ABOUT THE RLB CRANE INDEX®

The RLB Crane Index® is published by Rider Levett Bucknall biannually in Australia, New Zealand, USA, Gulf States and Southern Africa. The New Zealand RLB Crane Index® tracks the numbers of cranes in the key cities within New Zealand.

The RLB Crane Index® gives a simplified measure of the current state of the construction industry's workload in each of these locations.

Each RLB office physically counts all fixed cranes on each city's skyline twice yearly which provides the base information for the index. This information is then applied to a base date (2nd edition Q4 2014), which enables the RLB Crane Index® to be calculated highlighting the relative movement of crane data over time for each city.

Subsequent movements in crane numbers were applied to the base RLB Crane Index® to highlight the crane movements in each city over time based on the relative count in Q4 2014.

Using the RLB Crane Index® table data makes for quick comparisons in determining city by city crane activity. For example, when comparing Auckland cranes for the base period of Q4 2014, against the count in Q2 2018, the following formula can be used to determine the percentage increase (or decrease).

$$\text{PERCENTAGE CHANGE} = \left[\frac{\text{CRANE INDEX}_{\text{CP}} - \text{CRANE INDEX}_{\text{PP}}}{\text{CRANE INDEX}_{\text{PP}}} \right] \times 100$$

where Crane Index_{cp} is the RLB Crane Index_{cp} for the current period and Crane Index_{pp} is the RLB Crane Index® for the previous period.

HEATMAPS

The RLB Crane Index® hotspot maps offer a pictorial representation of the collected data for each city using a heatmap indicator to indicate the level of crane activity. The size of hotspot is relative to the scale of the map and is not an indication of the crane count in that position. The heatmap uses blue to indicate a lower crane activity, and the brighter red insert to indicate higher crane activity.

The location of the hotspots are indicative only and have been positioned to convey the general spread of cranes within a city.

The levels of intensity are calculated on a map by map basis and should not be compared between different cities.

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